

Interview claims for 09/757,765

A chemical change reagent

1. ~~An aqueous synfuel emulsion~~ for use as an additive for [combustible materials] ~~coal~~ to facilitate chemical bonding therewith and complete combustion, said aqueous [composition] ^{Consisting essentially} ~~emulsion~~ comprising 1.0% weight of polyvinyl alcohol, 10% to 35% by weight of a hydrocarbon wax and the balance of water, wherein all weight percentages are based on the total weight of the emulsion [.] and said emulsion combines with said materials to provide for improved combustion.

A chemical change reagent

3. ~~An aqueous synfuel emulsion~~ as claimed in claim 1 wherein the hydrocarbon wax is selected from the group consisting of paraffin wax, slack wax, microcrystalline wax, olefinic wax materials and mixtures thereof.

4. An aqueous synfuel emulsion as claimed in claim 1 which comprises 2 to 5% by weight of polyvinyl alcohol, 15 to 30% weight of ^{the} a hydrocarbon wax, 0 to 0.5% of a biocide and the balance of water.

5. An aqueous synfuel emulsion claimed in claim 4 which comprises 2 to 4.5% by weight of polyvinyl alcohol, 15 to 25% ^{the} by weight of a hydrocarbon wax, 0 to 0.10% by weight of a biocide and the balance of water.

6. An aqueous emulsion as claimed in claim 4 which further comprises 1.0% to 10.0% by weight of one or more filler materials, based on the total weight of the emulsion.

7. A method of assisting complete combustion of [a material] coal, said method comprising the step of applying to the [material] coal, ^{a chemical change reagent} ~~an aqueous composition~~ which ^{Consist essentially of} comprises 1.0 to 10.0% by weight of polyvinyl alcohol, 10.0 to 35.0% by weight of a hydrocarbon wax, and the balance of water, wherein all weight percentages are based on the total weight of the composition, and allowing a chemical change to occur.

insert waves → 8. A method as claimed in claim 7 wherein said ^{reagent} composition is in the form of an emulsion.

9. A method as claimed in claim 7 wherein said composition also includes 1.0 to 10.0 % by weight of a filler material, based on the total weight of the composition.

10. A method as claimed in claim 7 wherein said composition ^{Consist essentially of} comprises 2 to 4.5% by weight of polyvinyl alcohol, 15 to 25% by weight of ^{the} a hydrocarbon wax, 0 to 0.505 percentage by weight of a biocide, and the balance of water.

11. A method as claimed in claim 7 wherein the composition is applied to the [material] coal by spraying.

*Change preamble
in all claims
to chemical
change
percent*

12. ~~Cancel [A method as claimed in claim 7 wherein the material is coal.]~~

13. A method as claimed in claim 7 wherein said method complies with the Federal Air Quality Regulations, Section 40 of the Code of Federal Regulations,

14. The aqueous synfuel emulsion as in claim 1 and further comprising *consisting essentially of* a percentage of polyvinyl acetate in said composition.

15. The aqueous synfuel emulsion of claim ~~(13)~~ 14 wherein said percentage of polyvinyl acetate is ⁰⁻10%.

16. The aqueous synfuel emulsion of claim 1 and further comprising raw coal added to said composition.

~~17. Cancel [The composition of claim 15 and polyvinyl acetate.]~~

18. The [composition] emulsion of claim 16 wherein the percentage of polyvinyl acetate is 10%.

19. The [composition] emulsion of claim ¹⁴ 15 wherein the range of polyvinyl acetate is from 0 % to 20%.

21. An emulsion which reacts with coal to chemically change the functional group bonding found in coal, said emulsion comprising:

0 to 10% polyvinyl alcohol

0 to 70% wax hydrocarbon (basis in spec)

0 to 40% neutralized fatty acid (basis in spec)

*Revisit
This
claim
All %
being
zero.*

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